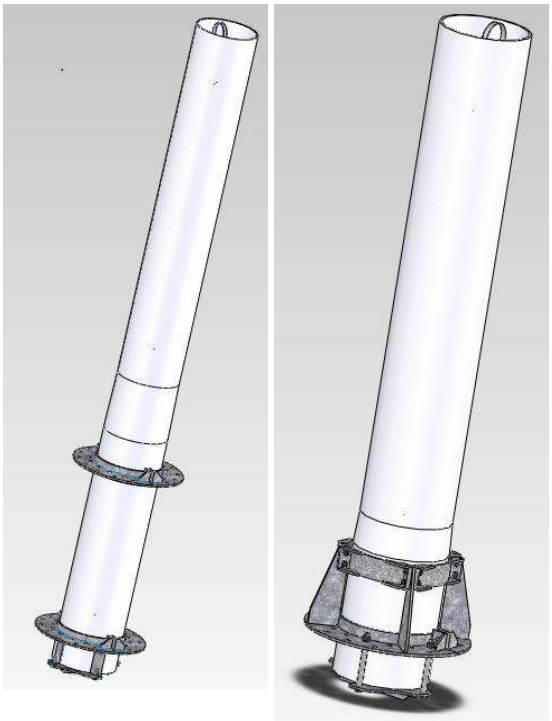
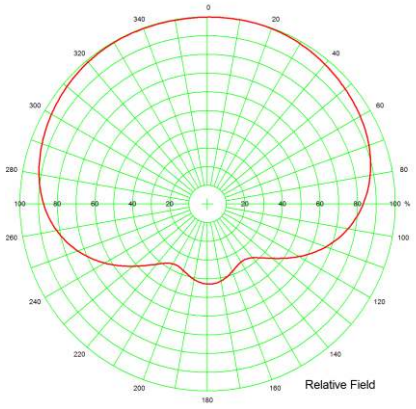
UHF CARDIOID ANTENNA
VERTICALLY POLARISED
470MHz - 800MHz

VERTICALLY POLARISED BROADBAND UHF CARDIOID ANTENNA



The 4 lambda cardioid antenna is designed to produce a wide cardioid Horizontal Radiation Pattern (HRP) from an array of co-linear full wave vertical dipoles. The dipoles are mounted to the narrow edge of aluminium 150mm x 50mm channel with a sheet metal cover containing the LCF ½" distribution cables. A single model can cover the UHF band 470MHz to 800MHz configured as interleaved halves or 470MHz – 735MHz configured as true halves. The 4 lambda cardioid is fed via dual co-phased inputs or single and designed to be either top mounted or inbedded into the structure housed within a 425mm diameter GRP radome. The cardioid antenna is suitable for multiple DVB-T2 or Analogue channels. With a durable and rugged construction the antenna is designed for many years of trouble free operation.



Typical Horizontal Radiation Pattern

Typical Specification	
Polarisation	Vertical
Frequency Range Interleaved Configuration	470 - 800MHz
Frequency Range Half Antenna Configuration	470 - 735MHz
Impedance	50 ohm
VSWR	<1.22:1
Max Gain	8.78dBd
Beam Tilt	6.4°
Low Freq Max Power	2.3kW
Input Connector	2 or 1 x 1 5/8"
Length/Diameter (Imbed Version)	4560mm / 425mm
Length/Diameter (Top Mount Version)	3050mm / 425mm
Weight (Imbed Version)	325kg
Weight (Top Mount Version)	260kg
EPA (Imbed Version)	1.4 sq. m
EPA (Top Mount Version)	0.8 sq. m
Lightning Protection	DC Grounded
***Design Windspeed**	75 m/s
Max wind speed Imbed Version without Damper	230 m/s
Max windspeed Imbed Version with Damper	185 m/s
Max wind speed Top Mount Version without Damper	120 m/s
Max wind speed Top Mount Version with Damper	85 m/s

*If used in an environment where the wind speeds regularly exceed the stated design speed please contact the office for verification.